JPL Informatics Team Monthly Report

May 2010

Links of interest

http://cancer.jpl.nasa.gov (informatics center)
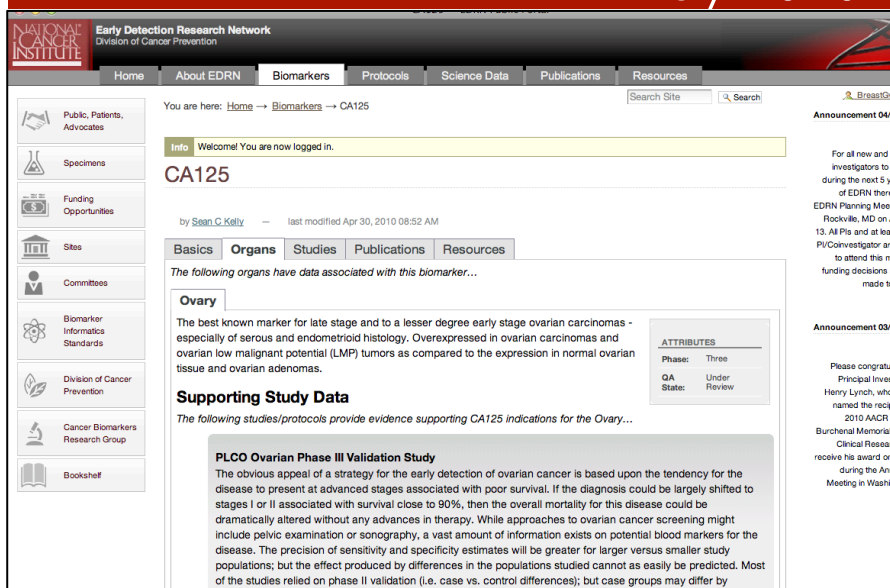
http://edrn.nci.nih.gov/ (ops)

http://nci-test-ws04-2-v.nci.nih.gov/(test)

http://edrn.jpl.nasa.gov/ (beta)

Biomarker Expert Reviews

Online Biomarker Review Worksheet

Expert reviews have been conducted with the following collaborative groups:

- Breast/GYN - Ovarian PLCO Markers (PI: Cramer)

- GU - TSP, hk2, hk4 and hk11 (PIs: Diamandis and Habb)

- GI - Meltzer 8-marker panel (PI: Meltzer)

Curation updates have been made based and re-reviews have occurred for the PLCO and Meltzer markers. Feedback from all groups has been gathered and the Informatics team will be working over the summer to implement these requirements into a new release of the Biomarker Database and the Public Portal.

Portal 3.0

The Informatics Center continues to polish and fine-tune the new release of the EDRN portal, while our colleagues at NCI continue to run security scans to ensure the new portal is hack-proof. If all goes according to plan, the new portal will go live this month!
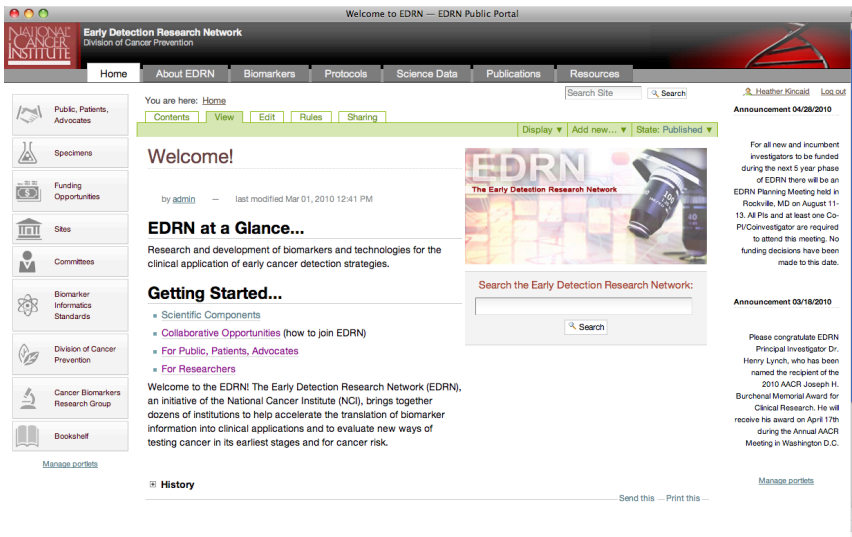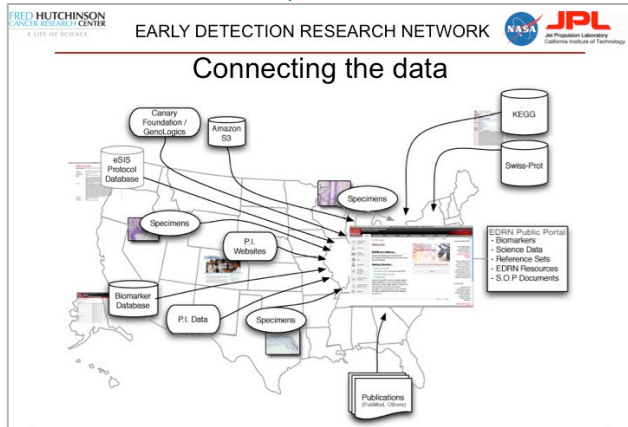

Accomplishments:

- Cleaned up content
- Checked links for accuracy
- Began security and accessibility scans

Next Steps and Future Plans:

- Update content final time

- Deploy to operational status at

- http://edrn.nci.nih.gov/

- Begin ERNE Lite Integration

- Synchronize EDRN Secure and Public Portals security (usernames and passwords)

Dan Crichton was invited speaker at Bio IT World in Boston on April 21. The presentation was a collaboration between GenoLogics (James DeGreef) and the Jet Propulsion Laboratory to highlight progress in establishing an infrastructure for sharing data for the Canary/EDRN Non-smokers study. The highlights included an overview of the semantic architecture that has been developed as well as the leveraging of an advanced cloud computing architecture to share data between groups. The session was well attended and there was significant interest by the group members. Of particular interest were groups looking to reuse EDRN methods, standards and software.

Bio IT World Conference & Expo '10

Joint presentation from JPL & Genologics

Highlighting the Canary-EDRN Non-Smokers Lung Project

Boston, MA
April 20 - 22

Presented by: Dan Crichton and James DeGreef

TBPT/ICR Workspaces Joint Face-to-Face

UCLA May 4 – 5

Presented by: Chris Mattmann and Andrew Hart

Chris Mattmann and Andrew Hart attended the caBIG Tissue Banking meeting at UCLA on May 4th and 5th presenting on the EDRN progress towards ERNE and the larger EDRN Knowledge Environment. The presentation discussed linking of the EDRN and caBIG enterprises including progress of linking the latest caTissue product suite into EDRN at UCSF. The presentation was very well received and several members expressed interest in learning more about EDRN and its pioneering accomplishments with EDRN. Interestingly enough, there was quite a bit of "tweeting" occurring by members in the audience that gave high praise to EDRN accomplishments in informatics. Ian Fore from the NCI chaired the meeting.

Creating an HIV Vaccine Enterprise Dataspace

Duke University
May 13 - 14
Invited Speaker and Panelist: Dan Crichton
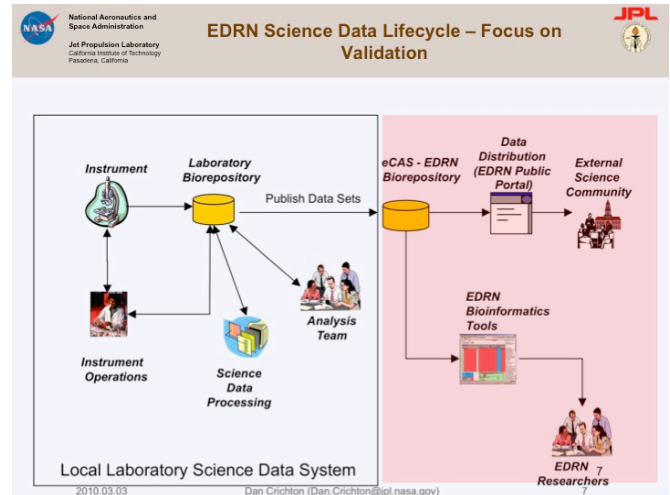
Dan Crichton was an invited speaker and panelist at a meeting at Duke University on May 13 and 14 to discuss the EDRN's approach to building a virtual science environment to capture and disseminate biomarker research across the EDRN network. The meeting includes a cross section of experts from the research community as well as members of funded research from the NIH National Institute of Allergy and Infectious Diseases who are interested in establishing a scientific informatics infrastructure to support HIV research. The effort is funded by the NIH and the Bill and Melinda Gates Foundation. Dan highlighted the EDRN Knowledge Environment, its pioneering accomplishments with EDRN, and the lessons learned of setting up a network.   The presentation provided a practical view and a success story that others are interested in replicating. Dan also served as panelist on advising them on undertaking such an endeavor.

Dan Crichton and Heather Kincaid attended the Canary Foundation Early Detection Symposium Lung Team Meeting at Stanford University on May 25 to discuss data future plans for data analysis possibly using cloud-computing or other technologies.

The JPL Informatics team will meet with Genologics, DMCC and Sage Networks to discuss the following:
- data capture plans to make sure the data is captured, annotated and stored in a format that can be used for analysis
- provide a computing and informatics infrastructure to enable that analysis.

Canary Foundation Early Detection Symposium
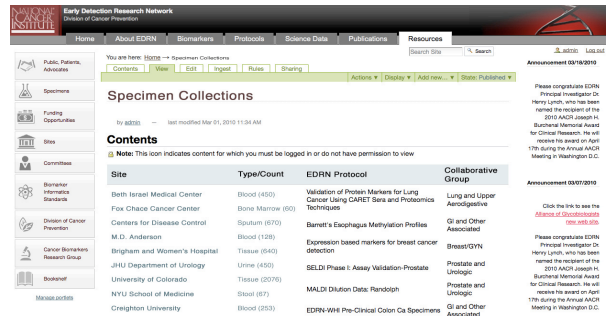
Lung Team Meeting

Stanford University
May 25, 2010
Attendees: Dan Crichton and Heather Kincaid

Software

- ## ERNE Lite

The EDRN Informatics Center has been working on updates to the RDF structure of the portal to include ERNE specimen results in the Google like and facet-based search capabilities provided. Users will be able to see specimens that match user queries, and counts of those specimens, with links that point back into the ERNE

- ## eMatch

Progress towards the development of an eMatch user interface continues, with the goal of having a beta release available within the next month, tested and ready for deployment and feedback at the August Steering Committee meeting.

Presentations and Meetings

O'Reilly OSCON Open Source Convention

Portland, Oregon
July 19-23

Presenters: Chris Mattmann and Heather Kincaid